

RESIDENTIAL CONSTRUCTION PACKET

All plans, permits, and inspections are being reviewed under the 2018 International Codes

ALL PLANS NEED TO BE 11X17 ONLY

127 N. Collins Rd. Sunnyvale, Texas 75182 972-203-4188



RESIDENTIAL CONSTRUCTION INFORMATION PACKET

Revised: March 2018

TABLE OF CONTENTS

A. GENERAL REQUIREMENTS2
B. GENERAL INSPECTION NOTES3
C. RESIDENTIAL INSPECTIONS REQUIRED4
D. RESIDENTIAL INSPECTION REQUIREMENTS4
1. TEMPORARY POWER POLE4
2. FLATWORK4
3. PLUMBING ROUGH5
a. Water Lines5
b. Sanitary Sewer6
c. Gas Line6
4. FOUNDATION6
a. Post Tension6
b. Rebar7
5. FRAME, MECH ROUGH, ELECTRIC ROUGH, PLBG TOP-OUT8
a. Framing8
b. Mechanical Rough10
c. Electrical Rough10
d. Plumbing Top-Out11
6. ENERGY INSULATION13
7. UTILITY FINAL13
a. Electric13
b. Gas13
8. FINAL INSPECTIONS14
a. Building14
b. Mechanical14
c. Electrical15
d. Plumbing15
e. Energy16
f. General16

Town of Sunnyvale

Residential Energy Compliance Certificate

Energy Code Requirements of the 201 IRC (IECC)

Provide this form at building completion prior to final inspection

ject Address:			Permit Number:		
DUCT LE	AKAGE TE	STING VERIFICATION			
Rough-In Test O	ption <i>(R403.3</i>	.3)	☐ Post Construction Option (R403.3.3)		
Syste	em #1	CFM25 System #2	CFM25 System #3	CFM25	
Syste	em #4	CFM25 System #5	CFM25 System #6	CFM25	
Energy Conser organizations as	vation Code. Is approved by	d a duct leakage test and it he further certify that I am certified the building official. I certify I am a ded or have any financial interest in	o perform duct leakage testing ce an independent third-party entity, a	rtified by national or s and have not installed	
Agency and Ce	ertification Nur	mber:			
Signature of Re	esponsible Pa	rty:			
Printed Name a	and Title of Re	esponsible Party:			
	C TUEDMA	I ENVELODE LEAKACE	TESTING VEDICICATION		
BUILDING	J INEKIMA	L ENVELOPE LEAKAGE	1ESTING VERIFICATION	<u>v</u>	
Building Theri	mal Envelope	Leakage Testing (R402.4.1.2):	ACH50		
organizations as have any financ	s approved by ial interest in th	further certify that I am certified the building official. I certify I ame company that constructs the structure.	an independent third-party entit cture.	y, nor am I employe	
		rty:			
•	•	•			
Printed Name a	and tille of Re	esponsible Party:			
COMPLIA	ANCE STAT	EMENT			
		ions, testing and plan reviews of t	he above project and hereby dec	lare it in compliance	
		e 201 ECC, as amended, for the		•	
☐ Option 1(a)	Prescriptive:	Sections N1101.14 (R401) through N11	104 (R404)		
☐ Option 1(b)	Prescriptive:	Recheck™ UA Approach Only: Section	s N1101.14 (R401)-N1104 (R404) (att o	ach report)	
☐ Option 2	Performance	: Section N1105 (R405) Performance A	pproach (attach report)		
☐ Option 3	ENERGY STAI	R Certified Homes® <i>(attach certificat</i>	te)		
☐ Option 4		g Index Compliance Alternative (E			
☐ Option #5	ESL 4ACH ⁵⁰ T	radeoff Code Equivalency Complia	nce		
Agency and	Certification	Number:			
		tion:			
Signature of	Responsibl	e Party:			
Printed Name	e and Title o	of Responsible Party:			

Town of Sunnyvale Residential Energy Compliance Path Energy Code Requirements of the 2018 IRC (IECC) Submit with application for a building

permit

	Project Address:		
	N1101.13 (R401.2) – Projects shall co	omply with one of the following:	
	N1102 (R402) Building Thermal En	velope. {Using table N1102.1.2 (R402.1.2) (R403) Systems. I Lighting Systems (Mandatory).	
	Option #1b – Prescriptive-Using	REScheck™ UA approach Only: S	Sections N1101.14 (R401) through N1104
	(R404): N1102 (R402) Building Thermal Env N1103 (R403) Systems. N1104 (R404) Electrical Power and Plus all mandatory provisions		
	Option #2 – Section N1105 (R40		
г	Plus all mandatory provis Option #3 – FNFRGY STAR Certification		
_	Option #3 – ENERGY STAR Certif	ned Homes	
L	Minimum envelope requirements Plus all mandatory provisions	eoff Code Equivalency Complian	
	Envelope Component	Option #1	Option #2
	R402.4 Air Leakage	<u>≤</u> 4ACH ⁵⁰	<u>≤</u> 4ACH ⁵⁰
	Wall Insulation Value	R13 + R3 ^b	R13 + R3 ^b
	Fenestration <i>U</i> -factor/SHGC	<u><</u> 0.32/0.25	<u><</u> 0.32/0.25
	Ceiling R-value	<u>></u> R49	<u>≥</u> R49
	Duct Insulation	R8	R6
	Radiant Barrier Required	No	Yes
	Except for the values listed in the target First value is cavity insulation, seco	•	• •
	NOTE: Attach appropriate complia	ince option "compliance report"	
	values; fenestration U-factors and SHGO design criteria; mechanical and service	C values; area-weighted average U-fa water heating system and equipme piping insulation and location; and air	necessarily limited to, insulation materials and Ractor and SHGC calculations; mechanical systement types, sizes and efficiencies; equipment and r sealing details; and that the project as designed bove.

Print Name: _____ Sign Name: _____



TOWN OF SUNNYVALE **BUILDING INSPECTIONS**

New Single Family Construction Inspection Steps

STEP No.	INSPECTION TYPE	INSPECTION TYPE	PERMIT PACKET LOCATION
1	T-Pole	Erosion Control	T-POLE
2	Foundation Piers	Erosion Control	T-POLE
3	Plumbing Rough In Plumbing Sewer	Water Service Line Erosion Control FORM BOARD SURVEY REQUIRED	T-POLE
4	Foundation Slab	Erosion Control	T-POLE
5	Building Sheathing Brick Ties Building Shear Wall Framing	Electrical Rough Plumbing Stack Out Plumbing Gas Mechanical Duct	FRONT DOOR
6	Electric temp Service Energy Insulation Compliance Results	Gas Meter Release (3 rd Party Inspection)	PANEL BOX
7	Building Final Electrical Final Plumbing Final Energy Final Compliance Results	Mechanical Final Irrigation Final Backflow Preventer Fence Final	FRONT DOOR

ALL FINAL INSPECTIONS MUST BE REQUESTED AT THE SAME TIME **REQUIRED FINAL DOCUMENTS**

Precise Grade Certificate Third Party Final Energy Residential Energy Compliance Certificate to final inspection if in Floodplain **Backflow Certificate for Irrigation**

Finished Floor Elevation (F.F.E.) Certificate submitted to Floodplain Department prior Irrigation Verification Form



IRRIGATION INSTALLATION VERIFICATION FORM

RE: _				
_			-	on address)
TO: BL	JILD	ING OF	FICIAL	
We, at _	PRIGAT		tror/Business NAME)	ave installed and tested the irrigation system
	requ	irement	s set forth by the Texas Co	mmission on Environmental Quality (TCEQ rule
We also	affi	rm that:		
1.	re		provided to the Town of Sur	een installed and tested and a copy of that anyvale prior to receiving the building final
2.	TI	he syste	em is provided with a rain a	nd freeze sensor.
3.	TI	he owne	er and/or representative has	s been provided:
	a.	Final	walk-through of operation o	f system and location of isolation valve
	b.	Mainto i.	enance Check list with: manufacturer's manual	
		ii.	seasonal watering schedu	ıle
		iii.	list of components	
		iv.	compliance statement	
	c.	Perma	anent sticker attached to co	ntroller with warranty and contact information
	d.	As-bu	uilt plans of system	
(OWNE	R O	R REPF	RENSENTATIVE)	(DATE)
(/	APP	LICAN	T'S SIGNATURE)	(DATE)
(IRR	IGATO	R'S NAME)	(IRRIGATOR LICENSE #)

PLEASE LEAVE THIS FORM AND TEST RESULT IN THE BUILDER'S PERMIT PACKET AT THE CONSTRUCTION SITE. SEE BACK FOR INSPECTION CHECK LIST.

Sample Irrigation Inspection Check List*

- 1. All valve boxes shall be accessible for inspection and repairs.
- 2. A. Verify isolation valve installed prior to backflow device.
 - B. A "Y" strainer must be placed before the backflow device.
 - C. There must be 4 inches of gravel at the bottom of the valve box and 3 inches of clearance from gravel to the backflow device.
 - D. The backflow device must be accessible for testing.
- 3. Verify rain/freeze sensors are installed.
- 4. Spray heads shall be placed at least 4 inches from hard surfaces, (driveways, foundations, parking lots, etc.)
- 5. No spaces less than 48 inches wide may be irrigated with above ground spray heads.
- 6. The licensed Irrigator or the designated representative may be required to conduct an operational demonstration of the system in the presence of the Code Official.
- 7. System must not spray over impervious areas (pavement, walls, fences, decks, etc.)
- 8. Must provide copy of Irrigation Installation Verification Form.
- 9. Provide verification of backflow test.
- 10. Verify the (as-built) drawings/plans are on site.
- 11. A permanent sticker which contains the Irrigators company and warranty information shall be affixed to the controller.

^{*} This list is only general in nature and is not all inclusive of all code requirements. It is only intended to help the applicant prepare for final inspection on the installation of irrigation system.